

Attorney's Docket
99 P 7358 US 02

Patent Application
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In the Claims

1-12 (Withdrawn)

13. (Currently Amended) A method for conserving power in a wireless communication system, comprising:

providing communication between a first and second component;

transmitting an initial signal from the first component to the second component at a first power level;

receiving the initial signal from the first component at the second component;

determining an initial signal quality at the second component by determining a plurality of successive line quality indicators and summing consecutive line quality indicators over a pre-determined period of time;

determining a communication strength for the initial signal at the second component; and

transmitting from the second component to the first component a request for the first component to transmit a subsequent signal at a second power level, the second power level less than the first power level, when the initial signal quality is higher than a pre-determined signal quality and the communication strength is greater than a specified range.

14-15 (Withdrawn)

16. (Original) The method of Claim 13, the first component comprising a mobile unit and the second component comprising a base unit.

17. (Original) The method of Claim 13, the first component comprising a base unit and the second component comprising a mobile unit.

18. (Canceled)

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~~19.~~ (Previously presented) The method of Claim ~~13~~¹, further comprising:

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determining a power level for the initial signal at the second component, the power level comprising one of a maximum power level and at least one non-maximum power level; and

transmitting from the second component to the first component a request for the first component to transmit a subsequent signal at the maximum power level when the initial signal quality is lower than the pre-determined signal quality and the first power level is a non-maximum power level.

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~~20.~~ (Previously presented) The method of Claim ~~19~~⁴, further comprising:

incrementing an attempt counter at the second component when a request is transmitted for the first component to transmit a subsequent signal at the maximum power level; and

determining a power level for the initial signal comprising determining a value of the attempt counter.

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~~21~~. (Currently Amended) A system for conserving power in a wireless communication system, comprising:

a first component;

a second component for providing wireless communication with the first component and for transmitting an initial signal to the first component at a first power level;

an error detector for the first component, the error detector for determining a line quality for the initial signal;

an attempt counter for the first component, the attempt counter for indicating whether the second component is transmitting at the maximum power level; and

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the first component operable to determine a power level for the initial signal by determining a value of the attempt counter, the power level comprising one of a maximum power level and at least one non-maximum power level and to transmit a signal to the second component requesting the second component to transmit a subsequent signal at the maximum power level when the initial signal quality is lower than a pre-determined signal quality and the first power level is a non-maximum power level.

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~~22~~. (Previously presented) The system of Claim ~~21~~⁶, the first component comprising a mobile unit and the second component comprising a base unit.

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~~23~~. (Previously presented) The system of Claim ~~21~~⁶, the first component comprising a base unit and the second component comprising a mobile unit.

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~~24~~. (Previously presented) The system of Claim ~~21~~⁶, the error detector operable to determine an initial signal quality by determining a plurality of successive line quality indicators.

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~~25~~. (Previously presented) The system of Claim ~~24~~⁹, further comprising a slow hop counter for summing consecutive line quality indicators over a pre-determined period of time, the error detector further operable to determine an initial signal quality by determining a value of the slow hop counter.

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E. J. [unclear]

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26. (Previously presented) The system of Claim ⁶~~21~~, the first component further operable to determine a communication strength for the initial signal and to transmit a signal to the second component requesting the second component to transmit a subsequent signal at a second power level, the second power level less than the first power level, when the initial signal quality is higher than the pre-determined signal quality and the communication strength is greater than a specified range.

[27. (Canceled)

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¹²
~~28~~. (Previously presented) A method for conserving power in a wireless communication system, comprising:

providing communication between a first and second component;

receiving an initial signal from the first component at the second component, the initial signal transmitted from the first component at a first power level;

determining a plurality of successive line quality indicators for the initial signal at the second component;

determining a line quality for the initial signal at the second component by summing consecutive line quality indicators over a pre-determined period of time; and

transmitting from the second component to the first component a request for the first component to transmit a subsequent signal at a second power level, the second power level based on the line quality for the initial signal.

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~~28~~. (Previously presented) The method of Claim ¹²~~28~~, the first component comprising a mobile unit and the second component comprising a base unit.

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~~30~~. (Previously presented) The method of Claim ¹²~~28~~, the first component comprising a base unit the second component comprising a mobile unit.

¹⁵
~~31~~. (Previously presented) The method of Claim ¹²~~28~~, further comprising:
determining a communication strength for the initial signal at the second component; and

transmitting from the second component to the first component a request for the first component to transmit a subsequent signal at the second power level, the second power level less than the first power level, when the initial signal quality is higher than a pre-determined signal quality and the communication strength is greater than a specified range.

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~~32~~.

(Previously presented) The method of Claim ¹²~~28~~, further comprising:

determining a power level for the initial signal at the second component, the power level comprising one of a maximum power level and at least one non-maximum power level; and

transmitting from the second component to the first component a request for the first component to transmit a subsequent signal at the second power level, the second power level comprising the maximum power level, when the initial signal quality is less than a pre-determined signal quality line quality for the initial signal is inferior to a pre-determined threshold and the first power level is a non-maximum power level.

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~~33~~.

(Previously presented) The method of Claim ¹⁴~~32~~, further comprising:

incrementing an attempt counter at the second component when a request is transmitted for the first component to transmit a subsequent signal at the maximum power level; and

determining a power level for the initial signal comprising determining a value of the attempt counter.

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34. (New) A method for conserving power in a wireless communication system, comprising:

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- providing communication between a first and second component;
 - transmitting an initial signal from the first component to the second component at a first power level;
 - receiving the initial signal from the first component at the second component;
 - determining an initial signal quality at the second component;
 - determining a communication strength for the initial signal at the second component; and
 - transmitting from the second component to the first component a request for the first component to transmit a subsequent signal at a second power level, the second power level less than the first power level, when the initial signal quality is higher than a pre-determined signal quality and the communication strength is greater than a specified range;
 - determining a power level for the initial signal at the second component, the power level comprising one of a maximum power level and at least one non-maximum power level;
 - transmitting from the second component to the first component a request for the first component to transmit a subsequent signal at the maximum power level when the initial signal quality is lower than the pre-determined signal quality and the first power level is a non-maximum power level;
 - incrementing an attempt counter at the second component when a request is transmitted for the first component to transmit a subsequent signal at the maximum power level; and
 - determining a power level for the initial signal comprising determining a value of the attempt counter.

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~~35~~. (New) A system for conserving power in a wireless communication system, comprising:

a first component;

a second component for providing wireless communication with the first component and for transmitting an initial signal to the first component at a first power level;

a slow hop counter for summing consecutive line quality indicators over a pre-determined period of time;

an error detector for the first component, the error detector for determining a line quality for the initial signal by determining a value of the slow hop counter; and

the first component operable to determine a power level for the initial signal, the power level comprising one of a maximum power level and at least one non-maximum power level and to transmit a signal to the second component requesting the second component to transmit a subsequent signal at the maximum power level when the initial signal quality is lower than a pre-determined signal quality and the first power level is a non-maximum power level.

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~~36~~. (New) The system of Claim ¹⁹~~35~~, the first component further operable to determine a communication strength for the initial signal and to transmit a signal to the second component requesting the second component to transmit a subsequent signal at a second power level, the second power level less than the first power level, when the initial signal quality is higher than the pre-determined signal quality and the communication strength is greater than a specified range.

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~~37~~. (New) The system of Claim ¹⁹~~35~~, further comprising:
an attempt counter for the first component, the attempt counter for indicating whether the second component is transmitting at the maximum power level; and
the first component operable to determine a power level for the initial signal by determining a value of the attempt counter.

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